Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-07-16-44** **Date: 06-05-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Kuvempu Layout Main Road to Elumandamma Temple Road in Ward No.07, Byatarayanapura.
Agency	:	Executive Engineer,Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/83/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-05-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.56	–
2	Finess by Air permeablity method (m^2/kg,Min)	277.8	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-07-16-44** **Date: 31-05-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Kuvempu Layout Main Road to Elumandamma Temple Road in Ward No.07, Byatarayanapura.
Agency	:	Executive Engineer,Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/83/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	03-05-19
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-07-16-44** **Date: 06-05-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Kuvempu Layout Main Road to Elumandamma Temple Road in Ward No.07, Byatarayanapura.
Agency	:	Executive Engineer,Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/83/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-05-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	243	243	1.6	98.4	90-100
3	20 mm	5364	5607	37.4	62.6	30-70
4	10 mm	4538	10145	67.6	32.4	10-35
5	4.75 mm	4432	14577	97.2	2.8	0-5
6	Pan	423	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-07-16-44** **Date: 06-05-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.8	
3	Specific Gravity	2.69	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.24	_

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-07-16-44** **Date: 06-05-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Kuvempu Layout Main Road to Elumandamma Temple Road in Ward No.07, Byatarayanapura.
Agency	:	Executive Engineer,Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/83/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	267	267	5.3	94.7	90-100
3	10 mm	2562	2829	56.6	43.4	25-55
4	4.75 mm	1773	4602	92.0	8.0	0-10
5	Pan	398	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-07-16-44** **Date: 06-05-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.9	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	24.3	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Kodigehalli Sub Division
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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-07-16-44** **Date: 06-05-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Kuvempu Layout Main Road to Elumandamma Temple Road in Ward No.07, Byatarayanapura.

Agency : Executive Engineer,Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/83/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-05-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 02-05-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	40	40	4.0	96.0	90-100	90-100	90-100	95-100
3	2.36 mm	189	229	22.9	77.1	60-95	75-100	85-100	95-100
4	1.18 mm	178	407	40.7	59.3	30-70	55-90	75-100	90-100
5	600 micron	205	612	61.2	38.8	15-34	35-59	60-79	80-100
6	300 micron	162	774	77.4	22.6	5-20	8-30	12-40	15-50
7	150 micron	141	915	91.5	8.5	0-10	0-10	0-10	0-15
8	Pan	85	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-07-16-44** **Date: 06-05-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.88	_
2	Specific Gravity	2.5	_
3	Material finer than 75 micron(%)	7.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M.N.D
AE(W3)

Assistant Executive Engineer
Kodigehalli Sub Division
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TEST RESULTS OF STEEL

Lab ID : **CP-2019-07-16-44** **Date: 08-05-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Kuvempu Layout Main Road to Elumandamma Temple Road in Ward No.07, Byatarayanapura.

Agency : Executive Engineer,Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/83/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-05-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 07-05-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(W4)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-07-16-44** **Date: 25/05/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Kuvempu Layout Main Road to Elumandamma Temple Road in Ward No.07, Byatarayanapura.

Agency : Executive Engineer,Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/83/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/05/2019	25/05/2019	150.49 X 150.53 X 149.26	22653	**8.612**	427.6	18.9	18.6
2	Drain Side Wall Concrete	M20	18/05/2019	25/05/2019	150.12 X 151.16 X 151.50	22691	**8.194**	420.8	18.5	
3	Drain Side Wall Concrete	M20	18/05/2019	25/05/2019	150.61 X 149.62 X 151.47	22534	**8.073**	410.9	18.2	

Note:

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AE(W)

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Bangalore - 560 092

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-07-16-44** **Date: 15/06/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Kuvempu Layout Main Road to Elumandamma Temple Road in Ward No.07, Byatarayanapura.

Agency : Executive Engineer,Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/83/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/05/2019	15/06/2019	151.47 X 149.07 X 151.88	22580	**8.159**	534.3	23.7	23.2
2	Drain Side Wall Concrete	M20	18/05/2019	15/06/2019	149.45 X 149.32 X 149.54	22315	**8.236**	501.1	22.5	
3	Drain Side Wall Concrete	M20	18/05/2019	15/06/2019	150.81 X 151.59 X 149.74	22861	**8.466**	538.9	23.6	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-07-16-44** **Date: 25/05/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Kuvempu Layout Main Road to Elumandamma Temple Road in Ward No.07, Byatarayanapura.

Agency : Executive Engineer,Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/83/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/05/2019	25/05/2019	150.36 X 149.57 X 151.03	22489	**8.612**	412.3	18.3	18.5
2	Drain Side Wall Concrete	M20	18/05/2019	25/05/2019	150.78 X 150.98 X 151.97	22764	**8.194**	424.6	18.7	
3	Drain Side Wall Concrete	M20	18/05/2019	25/05/2019	150.75 X 150.33 X 151.72	22661	**8.073**	416.2	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2019-07-16-44** **Date: 15/06/2019**
stomer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
ddress	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Kuvempu Layout Main Road to Elumandamma Temple Road in Ward No.07, Byatarayanapura.
Agency	:	Executive Engineer,Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/83/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-05-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/05/2019	15/06/2019	150.36 X 150.72 X 149.23	22662	**8.159**	527.4	23.3	23.4
2	Drain Side Wall Concrete	M20	18/05/2019	15/06/2019	150.11 X 150.18 X 149.28	22543	**8.236**	516.2	22.9	
3	Drain Side Wall Concrete	M20	18/05/2019	15/06/2019	149.32 X 150.77 X 149.56	22512	**8.466**	538.6	23.9	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

AE(WO)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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